```
NNN        NNN   CCCCCCCCCCC   PPPPPPPPPPP
NNN        NNN   CCCCCCCCCCC   PPPPPPPPPPPP
NNN        NNN   CCCCCCCCCCC   PPPPPPPPPPPP
NNN        NNN  CCC            PPP        PPP
NNN        NNN  CCC            PPP        PPP
NNN        NNN  CCC            PPP        PPP
NNNNNN     NNN  CCC            PPP        PPP
NNNNNN     NNN  CCC            PPP        PPP
NNNNNN     NNN  CCC            PPP        PPP
NNN   NNN  NNN  CCC            PPPPPPPPPPPP
NNN   NNN  NNN  CCC            PPPPPPPPPPPP
NNN   NNN  NNN  CCC            PPPPPPPPPPPP
NNN    NNNNNN   CCC            PPP
NNN    NNNNNN   CCC            PPP
NNN    NNNNNN   CCC            PPP
NNN       NNN   CCC            PPP
NNN       NNN   CCC            PPP
NNN       NNN   CCC            PPP
NNN       NNN   CCCCCCCCCCC    PPP
NNN       NNN   CCCCCCCCCCC    PPP
NNN       NNN   CCCCCCCCCCC    PPP
```

FILEID**NCPSTACON

NCPSTACON
LIS

```
0001  0  %TITLE  'Connect Parse States and Data'
0002  0  MODULE NCPSTACON (IDENT = 'V04-000', LIST(NOOBJECT)) =
0003  1  BEGIN
0004  1
0005  1
0006  1  !*****************************************************************
0007  1  !*                                                               *
0008  1  !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                     *
0009  1  !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.      *
0010  1  !*   ALL RIGHTS RESERVED.                                        *
0011  1  !*                                                               *
0012  1  !*   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  *
0013  1  !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH LICENSE  AND WITH THE   *
0014  1  !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
0015  1  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
0016  1  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
0017  1  !*   TRANSFERRED.                                                *
0018  1  !*                                                               *
0019  1  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
0020  1  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
0021  1  !*   CORPORATION.                                                *
0022  1  !*                                                               *
0023  1  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
0024  1  !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.     *
0025  1  !*                                                               *
0026  1  !*                                                               *
0027  1  !*****************************************************************
0028  1  !
0029  1
0030  1  !++
0031  1  ! FACILITY:     Network Control Program (NCP)
0032  1  !
0033  1  ! ABSTRACT:
0034  1  !
0035  1  !      States and data for the parsing of NCP Connect command
0036  1  !
0037  1  ! ENVIRONMENT:  VAX/VMS Operating System
0038  1  !
0039  1  ! AUTHOR:       Bob Grosso     , CREATION DATE: March 16, 1983
0040  1  !
0041  1  ! MODIFIED BY:
0042  1  !
0043  1  !     V03-001 RPG0001       Bob Grosso              dd-mmm-1983
0044  1  !--
```

```
:  46      0045  1 %SBTTL  'Definitions'
:  47      0046  1
:  48      0047  1 !
:  49      0048  1 ! INCLUDE FILES:
:  50      0049  1 !
:  51      0050  1
:  52      0051  1        LIBRARY 'LIB$:NCPLIBRY';
:  53      0052  1        LIBRARY 'LIB$:NMALIBRY';
:  54      0053  1        LIBRARY 'SYS$LIBRARY:TPAMAC';
:  55      0054  1
:  56      0055  1 !
:  57      0056  1 ! EXTERNAL REFERENCES:
:  58      0057  1 !
:  59      0058  1
:  60      0059  1        ACT_DFN                         ! External symbols for action routines
:  61      0060  1 EXTERNAL
:  62      0061  1        ACT$VRB_CONNECT,                ! Routine to perform connect
:  63      0062  1        NCP$GL_NOPARMS;                 ! Mark that entity does not require parameters
:  64      0063  1
:  65      0064  1 !
:  66      0065  1 ! LITERALS
:  67      0066  1 !
:  68      0067  1
:  69      0068  1 LITERAL
:  70      0069  1        NO_PARM_REQ = 1;                ! Mark that an entity does not require
:  71      0070  1                                        !  a parameter so that the check in
:  72      0071  1                                        !  NCPVRBACT can be disabled.
:  73      0072  1
```

NCPSTACON   Connect Parse States and Data   B 14   Page 3
V04-000   Parameter blocks   16-Sep-1984 00:23:51   VAX-11 Bliss-32 V4.0-742   (3)
                                                            14-Sep-1984 12:48:20   [NCP.SRC]NCPSTACON.B32;1

```
  75    0073  1  %SBTTL  'Parameter blocks'
  76    0074  1
  77    0075  1  !
  78    0076  1  !  BIND DATA:
  79    0077  1  !
  80    0078  1
  81    0079  1  !
  82    0080  1  !        Parameter Blocks
  83    0081  1  !
  84    0082  1
  85  P 0083  1         BUILD_PCL
  86  P 0084  1
  87  P 0085  1         (CON,
  88  P 0086  1
  89  P 0087  1         SLI, TKN,         PCNO_SLI, ,
  90  P 0088  1         SPW, HXPS,        PCNO_SPA, ,
  91  P 0089  1  !!     LFL, TKN,         PCNO_LOA, ,
  92  P 0090  1         PHA, NIADR,       PCNO_PHA, ,
  93  P 0091  1
  94  P 0092  1          ,END, , ,
  95  P 0093  1
  96    0094  1         )
  97    0095  1
  98    0096  1
  99  P 0097  1         BUILD_PBK
 100  P 0098  1
 101  P 0099  1         (CON,
 102  P 0100  1
 103  P 0101  1         NOD, NADR, , VRB_ENT,
 104  P 0102  1         SLI, TKN, , ,
 105  P 0103  1         SPW, HXPS, , ,
 106  P 0104  1  !!     LFL, TKN, , ,
 107  P 0105  1         PHA, NIADR, , ,
 108  P 0106  1
 109    0107  1         )
 110    0108  1
 111  P 0109  1         BUILD_SDB
 112  P 0110  1
 113    0111  1         (CON, NMA$C_ENT_NOD, VRB_ENT, CON)
 114    0112  1
```

```
  116      0113  1 %SBTTL  'Prompt strings'
  117      0114  1
  118      0115  1 !
  119      0116  1 !        Build prompt strings
  120      0117  1 !
  121      0118  1
  122      0119  1 BIND
  123      0120  1
  124    P 0121  1          PROMPT_STRINGS
  125    P 0122  1          (CON,
  126    P 0123  1
  127    P 0124  1          ENT, 'NODE node-id,  VIA circuit-name: ',
  128    P 0125  1          NOD, 'Node Console to Connect  (node-name, address): ',
  129    P 0126  1          VIA, 'Circuit to use              (circuit-name):',
  130    P 0127  1
  131      0128  2          )
  132      0129  1          ;
```

```
  134    0130  1  %SBTTL  'State Table Entry'
  135    0131  1
  136    0132  1  $INIT_STATE (NCP$G_STTBL_CON, NCP$G_KYTBL_CON);
  137    0133  1
  138    0134  1  !
  139    0135  1  !        Connect Console Command
  140    0136  1  !
  141    0137  1
  142    0138  1  !
  143    0139  1  !        Dispatch to entity types and prompt if end of string
  144    0140  1
  145    0141  1
  146    0142  1  !
  147    0143  1  !        Connect command
  148    0144  1  !
  149    0145  1
  150  P 0146  1           COMMAND_PROMPT
  151  P 0147  1           (CON, ENT, NCP$_INVKEY,
  152  P 0148  1
  153  P 0149  1           ( 'NODE', ST_CON_NOD),
  154  P 0150  1           ('VIA', ST_CON_VIA)
  155  P 0151  1           )
  156    0152  1
  157    0153  1
  158    0154  1  !
  159    0155  1  !        Obtain Node ID
  160    0156  1  !
  161  P 0157  1           COMMAND_PROMPT
  162  P 0158  1           (CON, NOD, NCP$_INVVAL,
  163  P 0159  1
  164  P 0160  1           ( (SE_NODE_ID), , ACT$SAVPRM, , , PBK$G_CON_NOD)
  165    0161  1           )
  166    0162  1
  167  P 0163  1  $STATE  (,
  168  P 0164  1           ( (ST_CON_PRM) )
  169    0165  1           );
  170    0166  1
  171  P 0167  1  $STATE  (,
  172  P 0168  1           (TPA$_EOS, TPA$_EXIT, ACT$VRB_CONNECT, , , SDB$G_CON)
  173    0169  1           );
  174    0170  1
  175    0171  1
  176    0172  1
  177    0173  1  !
  178    0174  1  !        Connect over specified circuit
  179    0175  1  !
  180  P 0176  1           COMMAND_PROMPT
  181  P 0177  1           (CON, VIA, NCP$_INVVAL,
  182  P 0178  1
  183  P 0179  1           ( (SE_CIRC_ID), , ACT$SAVPRM, NMA$C_ENT_CIR, NCP$GL_OPTION, PBK$G_CON_SLI)
  184    0180  1           )
  185    0181  1
  186  P 0182  1  $STATE  (,
  187  P 0183  1           ( (ST_CON_PRM) )
  188    0184  1           );
  189    0185  1
  190  P 0186  1  $STATE  (,
```

```
;   191      P 0187  1              (TPA$_EOS, TPA$_EXIT, ACT$VRB_CONNECT, , , SDB$G_CON)
;   192        0188  1              );
;   193        0189  1
```

```
  195      0190  1 %SBTTL  'Connect Parameters'
  196      0191  1
  197      0192  1 !
  198      0193  1 !        Connect Parameters
  199      0194  1 !
  200      0195  1
  201    P 0196  1 $STATE  (ST_CON_PRM,
  202    P 0197  1          (TPA$_EOS, TPA$_EXIT, ACT$SAVPRM, , , PBK$G_VRB_ALL),
  203    P 0198  1          (TPA$_LAMBDA)
  204      0199  1          );
  205      0200  1
  206      0201  1
  207      0202  1 %SBTTL  'Dispatch States'
  208      0203  1
  209      0204  1 !
  210      0205  1 !        Dispatch states
  211      0206  1 !
  212      0207  1
  213    P 0208  1 $STATE  (ST_CON_PRC,
  214    P 0209  1
  215    P 0210  1          DISPATCH_STATES
  216    P 0211  1          (CON,
  217    P 0212  1
  218    P 0213  1 !!       LFL, 'FROM',
  219    P 0214  1          PHA, 'PHYSICAL',
  220    P 0215  1          SPW, 'SERVICE',
  221    P 0216  1          SLI, 'VIA',
  222    P 0217  1
  223    P 0218  1          )
  224    P 0219  1
  225    P 0220  1          ,(TPA$_EOS, TPA$_EXIT)
  226      0221  1          );
```

```
  228      0222  1 %SBTTL  'Process States'
  229      0223  1 !
  230      0224  1 !
  231      0225  1 !              Process States
  232      0226  1 !
  233      0227  1
  234    P 0228  1              PROCESS_STATES
  235    P 0229  1              (CON,
  236    P 0230  1
  237    P 0231  1 !!           LFL, 'FILE',
  238    P 0232  1              PHA, 'ADDRESS'
  239    P 0233  1              SPW, 'PASSWORD',
  240    P 0234  1              SLI, 'CIRCUIT',
  241    P 0235  1
  242      0236  1              )
  243      0237  1
```

```
  245        0238  1 %SBTTL  'Subexpressions'
  246        0239  1
  247        0240  1 !
  248        0241  1 !           Subexpressions
  249        0242  1 !
  250        0243  1
  251      P 0244  1           SUB_EXPRESSIONS
  252      P 0245  1           (CON,
  253      P 0246  1
  254      P 0247  1 !!        LFL, (SE_FILE_ID),
  255      P 0248  1           PHA, (SE_NI_ADR),
  256      P 0249  1           SPW, (SE_HEX_PSW),
  257      P 0250  1           SLI, (SE_CIRC_ID),
  258      P 0251  1
  259        0252  1           )
  260        0253  1
```

```
  262   0254  1  %SBTTL  'Define Subexpressions from Library'
  263   0255  1
  264   0256  1  !
  265   0257  1  !          Define subexpressions from library
  266   0258  1  !
  267   0259  1
  268   0260  1  !!        SEM_FILE_ID              ! File id strings
  269   0261  1            SEM_HEX_PSW              ! Hex password
  270   0262  1            SEM_CIRC_ID              ! Circuit name strings
  271   0263  1            SEM_LINE_ID              ! Line id
  272   0264  1            SEM_NODE_ID              ! Node id strings
  273   0265  1            SEM_NI_ADR               ! NI Address
  274   0266  1            SEM_QUOT_STR             ! Quoted strings
```

```
  276      0267  1 %SBTTL   'Object Listing of Parse Table'
  277      0268  1
  278      0269  1 END                              !End of module
  279      0270  0 ELUDOM
```

NCPSTACNO
LIS

NCPSTALIN
LIS

NCPSTACIR
LIS

NCPSTADUM
LIS

NCPSTADIS
LIS

NCPSTACON
LIS

NCPSTACLP
LIS